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SOURCE

Press of the Main Administration of the Northern Sea Route, Leningrad,
Moscow, 1940. (Information requested.)

CLIMATOLOGICAL HANDBOOK ON THE SOVIET SECTOR OF THE ARCTIC

Edited by Professor Ye. I. Tikhomirov, Works of the Arctic Scientific Research Institute, Main Administration of the Northern Sea Route, Council of People's Commissars USSR, 1940, 120 pp.

Following is a brief summary of the book.

This report is a compilation of data collected at 64 polar stations and four weather ships of the Main Northern Sea Route over a period of years varying from 4 years at some stations to over 20 at others. The report is divided into a foreword, which explains the reason for the report, the methods used, and explanations of the degree of accuracy of the data; an explanation of the tables; 31 tables, in which the data is arranged; an alphabetic list of stations; and a small map of the area involved with the positions of the stations marked.

The tables are as follows:

- I. Mean monthly atmospheric temperatures
- Ia. Mean monthly atmospheric temperatures
- Ib. Mean monthly atmospheric temperatures for the period January 1935 to December 1937
- II. Dates of onset of mean diurnal atmospheric temperatures (in 5 intervals) and the number of days with above-average temperatures
- III. Number of days with mean diurnal atmospheric temperatures within the limits indicated
- IIIa. Number of days when the mean diurnal temperature is near zero
- IV. Mean minimum atmospheric temperatures
- V. Absolute minimum atmospheric temperatures

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50X1-HUM

- VI. Absolute maximum atmospheric temperatures
- VII. Wind direction and the average number of calm days
- VIII. Frequency of calms
- IX. Average monthly wind velocities
- X. Frequency of different wind velocities
- XI. Average monthly wind velocities by rhumbs
- XIIa. Maximum wind velocities by rhumbs
- XIII. Average monthly precipitation
- XIIIa. Maximum and minimum monthly and annual precipitation
- XIV. Number of days with different amounts of precipitation
- XV. Maximum diurnal precipitation
- XVI. Depth of snow cover by 10-day periods
- XVII. Dates of the beginning and end of snow cover and the number of days in the year with snow
- XVIII. Number of days with snow storms (regardless of type)
- XIX. Average monthly absolute humidity of the air (based on diurnal average)
- XX. Average monthly relative humidity of the air
- XXI. Number of days with relative humidity above 80 percent at 1300 hours.
- XXII. Frequency of clear, partly cloudy, and overcast skies (total cloud amount)
- XXIIa. Frequency of clear, partly cloudy, and overcast skies (low clouds)
- XXIII. Number of days with fog
- XXIV. Solar and terrestrial radiation
- XXV. Mean monthly soil temperatures
- XXVI. Mean monthly atmospheric temperatures by individual years
- XXVII. Monthly and annual precipitation totals by individual years

[A complete translation of the report is available in CIA.]

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- 2 -

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